

Blackwater River TMDL Implementation Program



Why a Blackwater TMDL Implementation Program?

- Clean Water Act of 1972 compliance for non-point source pollution
- Listed impairment – fecal coliform bacteria
- Secondary impairment – sediment for some segments
- Studies indicated that to meet water quality standards, direct deposition of manure by all livestock and all human waste shall be eliminated from stream

TMDL Project Goals

- Agricultural - 119 Full Livestock Exclusion Systems
- 70 miles of riparian pasture fencing
- 85 hardened stream crossings
- 7 septic tank systems to replace straight pipes
- 8 alternative waste treatment systems to replace straight pipes

Agricultural Best Management Practices Offered

- Animal Waste Facilities
- Stream Protection – 35 feet buffer
- Grazing systems with alternative water sources, stream crossing & travel lanes
- Loafing Lot Management Systems
- Sediment control – stream bank stabilization, critical area treatment, and reforestation of erodible crop and pasture land
- Cost-share assistance – 75% of eligible costs

















Critical Area Stabilization



Forested Riparian Buffer



Streambank Stabilization





TMDL Contracts

■ 8 Animal Waste BMP's	\$351,010
■ 10 Grazing Land Protection	\$207,002
■ 2 Streambank Stabilization	\$49,719
■ 1 Stream Protection	\$16,777
■ 1 FR-3	\$400
■ Total:	\$624,908

Residential (Septic) BMP's

- Septic connection to public sewer system
- Septic system repair
- Septic system installation/replacement
- Alternative on-site treatment systems
- Cost-share assistance – 50% to 75% eligible costs based on household income, capped at \$3,000.00 conventional systems and \$7,500.00 for treatment systems.

Septic BMP's



- Above are pictures of the installation process of a septic system to replace straight pipe disposal.

TMDL Septic

- 15 contracts to replace straight pipes
- 9 contracts to repair failing systems
- 1 contract to connect to public sewer
- 1 alternative treatment system
- \$30,696 – Cost Share paid to date

Initial Agreement with DCR to facilitate action toward goals

- \$500,000 made available to finance a voluntary cost-sharing program
- \$300,000 allocated for agricultural BMP's
- \$52,500 allocated for residential (septic) BMP's
- \$147,500 for technical assistance, administrative, equipment, etc.
- Additional \$200,000 for cost sharing
- Additional \$120,000 for technical assistance

Things to do starting up

- Involve local governmental entities
- Involve farm and/or agricultural organizations
- Enlist help of fellow agencies
- Involve community and church leaders

Getting the word out

- Use mass media – radio, TV, newspapers
- Use direct mailings – newsletters, pamphlets
- Hold public meetings within community
- Have pasture walks, grazing system workshops and other educational activities
- Feed them and they will come
- Arrange stream walks and/or investigations

Putting BMP's on the ground

- Provide timely and effective technical assistance for BMP planning
- Obtain Board approval of BMP's promptly
- Arrange for prompt check-out and payment when BMP is completed

REMEMBER

TMDL Implementation Programs
are an opportunity not a
punishment!